carbonate at 2.15g. When a reaction process is applied as similar to as in Embodiment 5, 8-γ-morpholino propyl amino-7-propyne-(2')-theophylline at a 1.56°C melting point is obtained.

Claim

The invention is a method for production of 7,8-substituted theophylline derivatives as indicated by the following general formula:

$$\begin{array}{c|c} CH_{s}-N-C=0 \\ O-C & C-N \\ CH_{s}-C=CH \\ CH_{s}-N-C-N \end{array}$$

(In the formula, R and R' represent hydrogen, an aliphatic group, aromatic group, aromatic group or both aliphatic and aromatic groups with a different top ring formed by closing the ring with nitrogen), characterized in that

(In the drawing, R and R' indicate the same components as disclosed above) is reacted to 8-halogeno-7propyne (2')-theophylline as indicated by the following formula:

$$CH_{3}-N-C-O$$

$$CH_{4}-C=CH$$

$$CH_{3}-N-C-N$$

$$C-X$$

(In the formula, X represents halogen).

U.S. Patent and Trademark Office Translations Branch 8/27/03 Chisato Morohashi